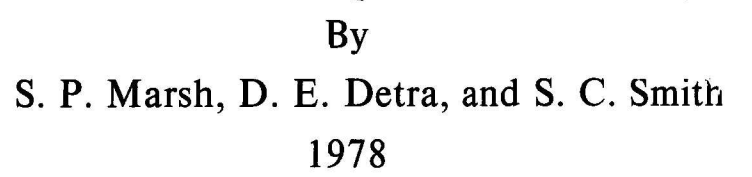
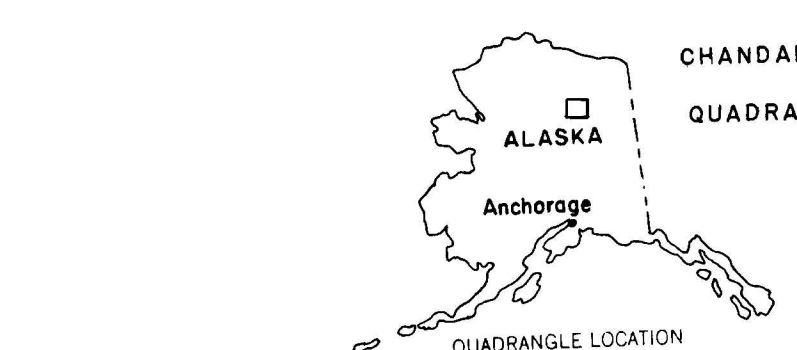
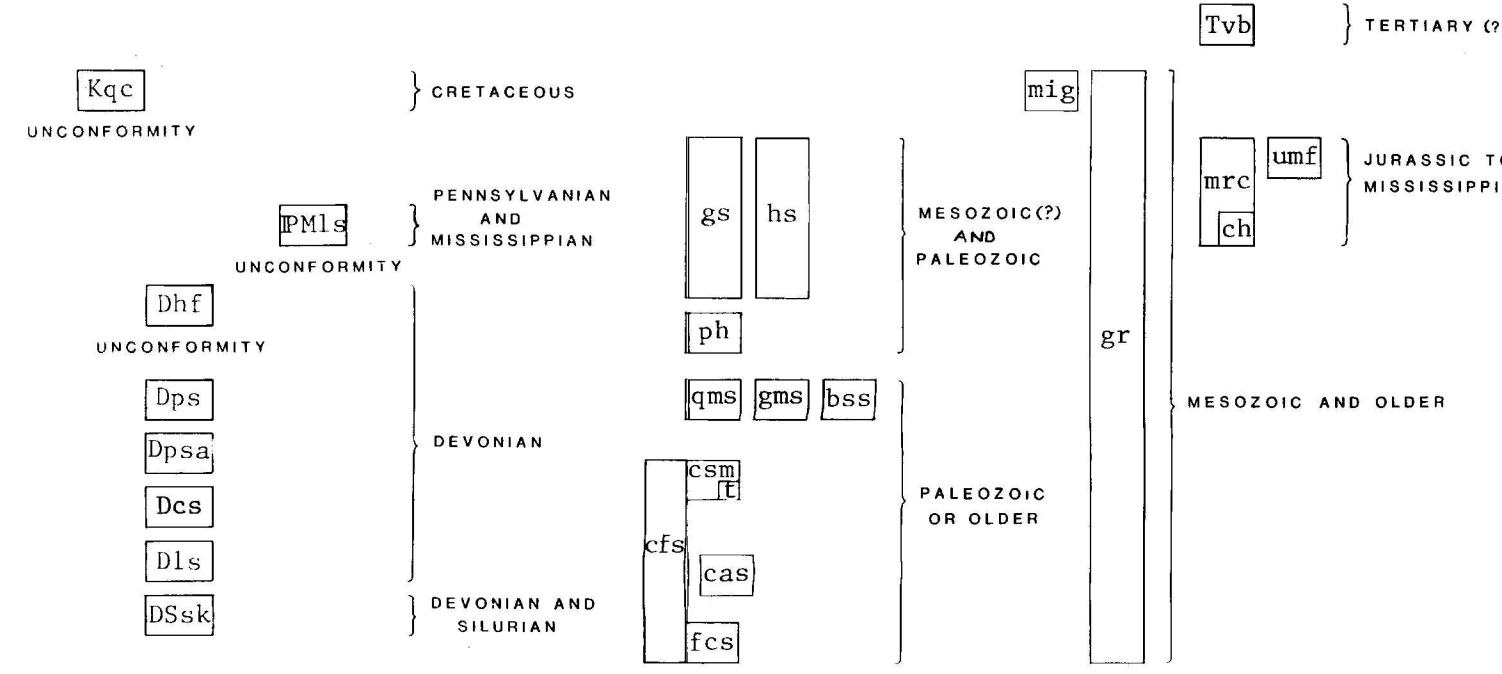


For sale by Branch of Distribution, U.S. Geological Survey



## GEOLOGY GENERALIZED AND REVISED FROM BROSGE AND REISER, 1964, AND CHIPP, 197

FOSSILIFEROUS, PARTLY METAMORPHOSED METAMORPHIC, INTRUSIVE, AND VOLCANIC ROCKS



This map is generalised from Brosgé and Reiser (1964). Many of these map units are combinations of units shown separately on the older map. The Devonian and Devonian(?) age that was assigned to the metamorphic rocks by Brosgé and Reiser (1964) is herein revised to

Kqc	POSSIBLE/USING PARTLY METAMORPHOSED SEDIMENTARY ROCKS
FMIs	Quartz pebbles conglomerate (Cretaceous)
Dhf	Laborne Group (Pennsylvanian and Mississippian) and Keweenaw Shale (Mississippian)-Limestone, dolomite, shale and conglomerate
Dps	Hunt Fork Shale (Upper Devonian)-Slate and phyllite
Dpsa	Purple and green slate and phyllite (Devonian)
Dcs	Purple and green andesitic volcanic breccia (Devonian)
Dls	Chloritic siltstone and grit (Devonian)-Schistose; in part graywacke
	Limestone and siltstone (Upper Devonian)-Schistose; includes some green slate locally
DSsk	Sluick Limestone (Upper and Middle Devonian, Upper Silurian)-Limestone, dolomite, and marble

Tvb Vesicular olivine basalt flows (Tertiary?)

gr Granitic rocks--K/Ar dates of biotite are 101 m.y. and 125 m.y. (Brougé and Reiser, 1964); of hornblende, 486 m.y. (M. L. Silberman and D. L. Turner, written commun., 1977)

mf	ch	Mafic rocks; differentiated -Biller basalts, andesite, minor chert, diorite, diabase and gabbro.
mf		Chert (ch) differentiated where abundant
umf		Ultramafic rocks
gs		Greenstones and greenschists-Includes pillowed dikes in the Park Mts (PM) in northeast part of the Quadrangle
hs		Hornblende schists-Mostly hornfels facies
ph		Phyllites and schistose waxes
qms		Quartz muscovite schists
gms		Garnet mica schists-Mostly hornfels facies
bs		Hornite staurolite schists-Hornfels facies
cm	t	Calcareous schist, marble and tectite (?) locally
cfs		Undifferentiated calcareous schist (cm) and felsiphatic chloritic schist (cfs)
af		Albite and albite schist-Includes uncalcified albite and albite quartzite
cas		Phelippsch amphibole schist-Local remnant

CONTACT--Dashed where approximate;  
dotted where concealed

$\frac{U}{D}$  NORMAL FAULT--Dashed where inferred, q where doubtful; dotted where concealed  
U, upthrown side; D, downthrown side

THRUST FAULT--Queried where doubtful; where concealed. Sawteeth on upper

- Sample locality

☐ Anomalous values of zinc less than 150

### ■ Anomalous values of zinc

This geochemical map shows the distributio

This geochemical map shows the distribution of trace metals in stream sediment samples in the Chandalar quadrangle, Alaska. The map is one of a series of geochemical maps together with the background information (Reiser and others, 1978) comprise the Chandalar geochemical map series. The data are plotted on a subdued base map showing the generalized geology, topography, and sample localities. Symbols show the metal values that are anomalously high. These symbols are defined on the accompanying legend. The symbols are based on the analytical procedures and the geochemical data for all samples are presented by O'Leary (1976). The -80 mesh (177 micrometers) stream bed sediment was used in this study because of regional differences in stream bed sediment. The rather restrictive time and manpower constraints the -80 mesh (177 micrometers) stream bed sediment combined with panned concentrates was determined to be the most economical and adequate method for the study. The sediment samples were derived from local bedrock.